02/25/2016 503709887

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3756528

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| EHAB MLYBARI | 09/20/2015 |
| ESAM YOSRY | 09/20/2015 |
| ABDEL-RAHMAN HEDAR | 09/20/2015 |
| ALAA E. ABDEL-HAKIM | 09/20/2015 |
| GAMAL ELSAYED | 09/20/2015 |

RECEIVING PARTY DATA

| Name: | UMM AL-QURA UNIVERSITY |
|-------------------|------------------------|
| Street Address: | P.O. BOX 715 |
| Internal Address: | ALAABDEYA DISTRICT |
| City: | MAKKAH |
| State/Country: | SAUDI ARABIA |
| Postal Code: | 21955 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15053644 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (703) 413-3000 Imontano@oblon.com Email:

Correspondent Name: OBLON, ET AL. Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 451338US8DMS |
|-------------------------|--|
| NAME OF SUBMITTER: | LIZ MONTANO |
| SIGNATURE: | /Liz Montano/ |
| DATE SIGNED: | 02/25/2016 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

PATENT REEL: 037831 FRAME: 0327

503709887

Total Attachments: 5 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif

| Title of Invention | SMART SURFACE-MOUNTED HYBRID SENSOR SYSTEM, METHOD AND APPARATUS FOR COUNTING |
|---|---|
| As the below name | ed inventor, I hereby declare that: |
| This declaration [| ☐ The attached application, or |
| is directed to: | United States application or PCT international application number |
| The above-identifi | ied application was made or authorized to be made by me. |
| I believe that I am | the original inventor or an original joint inventor of a claimed invention in the application. |
| (hereinafter referr 21955 Saudi Arab any Letters Patem foreign countries; | |
| with the terms of these presents do in the United Star under the terms of aforesaid applicat therefor in the United Star | EFORE, in recognition of receipt of valuable consideration, which includes consideration consistent Inventor's employment agreement with ASSIGNEE, and/or use of ASSIGNEE resources, I, by convey, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention tes and its territorial possessions and in all foreign countries (including the right to claim priority of the International Convention and other relevant International Treaties and Arrangements from the tion) and the entire right, title and interest in and to any and all Letters Patent which may be granted nited States and its territorial possessions and in any and all foreign countries and in and to any and sues, continuations, substitutions and renewals thereof. |
| any and all foreignssignee of my end (his) successors | orize and request the Patent Office Officials in the United States and its territorial possessions and gn countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and me would have been held by me had this Assignment and sale not been made. |
| respecting said continuation, sub all of said Letter possible to aid s invention in the l | ee that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, stitute, renewal and reissue applications, execute all necessary assignment papers to cause any and rs Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything aid ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said United States and its territorial possessions and in any and all foreign countries. |
| I hereby acknowled by fine or impris | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 onment of not more than five (5) years, or both. |
| LEGAL NAME | |
| Inventor: Ehab | MLYBARI Date: Sept 20, 2015 |
| Signature: | Children also |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

| | SURFACE-MOUNTED HYBRID SENSOR SYSTEM, METHOD AND TUS FOR COUNTING |
|---|---|
| As the below named inventor, I | hereby declare that: |
| This declaration \(\sum \) The attach | ed application, or |
| is directed to: United Sta | tes application or PCT international application number |
| The above-identified application | n was made or authorized to be made by me. |
| I believe that I am the original i | nventor or an original joint inventor of a claimed invention in the application. |
| WHEREAS, UMM AL-QUE | |
| 21955 Saudi Arabia, is desirou | SIGNEE") having places of business at: P.O. Box 715, Alaabdeya District, Makkah is of acquiring the entire right, title and interest in and to said invention and in and to granted therefore in the United States and its territorial possessions and in any and all |
| with the terms of Inventor's e these presents do convey, assig in the United States and its ter under the terms of the Internati aforesaid application) and the e therefor in the United States ar | regnition of receipt of valuable consideration, which includes consideration consistent imployment agreement with ASSIGNEE, and/or use of ASSIGNEE resources, I, by in and transfer unto said ASSIGNEE, the full and exclusive right to the said invention ritorial possessions and in all foreign countries (including the right to claim priority onal Convention and other relevant International Treaties and Arrangements from the entire right, title and interest in and to any and all Letters Patent which may be granted it its territorial possessions and in any and all foreign countries and in and to any and tions, substitutions and renewals thereof. |
| any and all foreign countries assignee of my entire right, tit (his) successors and assigns, t | est the Patent Office Officials in the United States and its territorial possessions and to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the e and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its to the full end of the term for which said Letters Patent may be granted, as fully and e been held by me had this Assignment and sale not been made. |
| respecting said invention, an continuation, substitute, renew all of said Letters Patent to be possible to aid said ASSIGNI | communicate to said ASSIGNEE or its (his) representatives any facts known to me d testify in any legal proceeding, sign all lawful papers, execute all divisional, al and reissue applications, execute all necessary assignment papers to cause any and e issued to said ASSIGNEE, make all rightful oaths, and, generally do everything EE, its (his) successors and assigns, to obtain and enforce proper protection for said and its territorial possessions and in any and all foreign countries. |
| I hereby acknowledge that a by fine or imprisonment of not | my willful false statement made in this declaration is punishable under 18 U.S.C. 1001 more than five (5) years, or both. |
| LEGAL NAME OF INVENTO | OR . |
| Inventor: Esam YOSRY | Date: Sep. 20, 2015 |
| Signature: | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

| Title of SMART SURFACE-MOUNTED HYBRID SENSOR SYSTEM, METHOD AND APPARATUS FOR COUNTING |
|--|
| As the below named inventor, I hereby declare that: |
| This declaration The attached application, or |
| is directed to: United States application or PCT international application number filed on |
| The above-identified application was made or authorized to be made by me. |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. |
| WHEREAS, UMM AL-QURA UNIVERSITY |
| (hereinafter referred to as "ASSIGNEE") having places of business at: P.O. Box 715, Alaabdeya District, Makkah 21955 Saudi Arabia, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; |
| NOW, THEREFORE, in recognition of receipt of valuable consideration, which includes consideration consistent with the terms of Inventor's employment agreement with ASSIGNEE, and/or use of ASSIGNEE resources, I, by these presents do convey, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof. |
| I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made. |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. |
| LEGAL NAME OF INVENTOR |
| Inventor: Abdel-Rahman HEDAR Date: Sep. 20, 2015 |
| Signature: de |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

| Title of Invention | SMART SURFACE-MOUNTED HYBRID SENSOR SYSTEM, METHOL AND APPARATUS FOR COUNTING |
|---|---|
| As the below named | l inventor, I hereby declare that: |
| This declaration 🗵 | The attached application, or |
| is directed to: | United States application or PCT international application number filed on |
| The above-identified | d application was made or authorized to be made by me. |
| I believe that I am the | he original inventor or an original joint inventor of a claimed invention in the application. |
| (hereinafter referred 21955 Saudi Arabia | MAL-QURA UNIVERSITY If to as "ASSIGNEE") having places of business at: P.O. Box 715, Alaabdeya District, Makkah I, is desirous of acquiring the entire right, title and interest in and to said invention and in and to hat may be granted therefore in the United States and its territorial possessions and in any and all |
| with the terms of I these presents do co in the United State under the terms of aforesaid application therefor in the United | ORE, in recognition of receipt of valuable consideration, which includes consideration consistent inventor's employment agreement with ASSIGNEE, and/or use of ASSIGNEE resources, I, by convey, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention is and its territorial possessions and in all foreign countries (including the right to claim priority the International Convention and other relevant International Treaties and Arrangements from the on) and the entire right, title and interest in and to any and all Letters Patent which may be granted led States and its territorial possessions and in any and all foreign countries and in and to any and es, continuations, substitutions and renewals thereof. |
| any and all foreign assignee of my ent (his) successors an | ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its id assigns, to the full end of the term for which said Letters Patent may be granted, as fully and e would have been held by me had this Assignment and sale not been made. |
| respecting said in continuation, substall of said Letters possible to aid sai | that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me identified, and testify in any legal proceeding, sign all lawful papers, execute all divisional, titute, renewal and reissue applications, execute all necessary assignment papers to cause any and Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything d ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said nited States and its territorial possessions and in any and all foreign countries. |
| I hereby acknow by fine or imprisor | wiedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 nment of not more than five (5) years, or both. |
| LEGAL NAME O | |
| Inventor: Alaa E | : ABDEL-HAKIM Date: 9/20/20(5 |
| Signature: | Alas |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

| Title of Invention | SMART SURFACE-MOUNTED HYBRID SENSOR SYSTEM, METHOD AND APPARATUS FOR COUNTING |
|--|--|
| As the below name | d inventor, I hereby declare that: |
| This declaration 🗵 | The attached application, or |
| is directed to: | United States application or PCT international application number filed on |
| | ed application was made or authorized to be made by me. |
| I believe that I am | the original inventor or an original joint inventor of a claimed invention in the application. |
| (hereinafter referre 21955 Saudi Arab any Letters Patent foreign countries; | MM AL-QURA UNIVERSITY ed to as "ASSIGNEE") having places of business at: P.O. Box 715, Alaabdeya District. Makkah ia., is desirous of acquiring the entire right, title and interest in and to said invention and in and to that may be granted therefore in the United States and its territorial possessions and in any and all |
| with the terms of these presents do in the United Stat under the terms of aforesaid applicat therefor in the Un | FORE, in recognition of receipt of valuable consideration, which includes consideration consistent. Inventor's employment agreement with ASSIGNEE, and/or use of ASSIGNEE resources, I, by convey, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention ites and its territorial possessions and in all foreign countries (including the right to claim priority of the International Convention and other relevant International Treaties and Arrangements from the ion) and the entire right, title and interest in and to any and all Letters Patent which may be granted inted States and its territorial possessions and in any and all foreign countries and in and to any and these, continuations, substitutions and renewals thereof. |
| any and all foreign assignce of my en | wrize and request the Patent Office Officials in the United States and its territorial possessions and generountries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ntire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and me would have been held by me had this Assignment and sale not been made. |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | |
| I hereby acknowly fine or impris | owledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 onment of not more than five (5) years, or both. |
| LEGAL NAME Inventor: Gam | - 9/20/2015 |
| Signature: | mulle avach |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW 1940 DUKE STREET

ALEXANDRIA, VIRGINIA 22314

PATENT REEL: 037831 FRAME: 0333

RECORDED: 02/25/2016